



AVOX Systems

893 Series Air Crew Oxygen Breathing System



The AVOX Systems 893 Series Oxygen Breathing System is compact, lightweight, rugged, and provides comfortable breathing protection to 40,000 feet.

The mask is TSO-C78 approved and can be donned and functioning in under five seconds. The Duo-Seal® facepiece is made of natural rubber and is adjustable for maximum comfort.

The system includes a TSO-C89 approved mask-mounted regulator that features an inhalation/exhalation diaphragm to minimize mask pressure swing. An optional microphone assembly is mounted separately for servicing convenience, and is compatible with most standard communication systems.

Outstanding Features

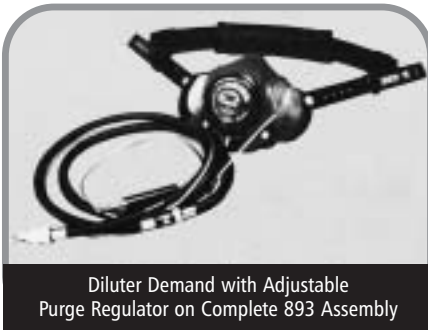
- Quick-donning oral-nasal mask assembly designed to provide breathing protection to 40,000 feet.
- Mask can be donned and supplying oxygen in under five seconds.
- Miniature mask-mounted Diluter/Demand Regulator features manual selector for 100% oxygen or NORMAL (air/oxygen) dilution. Regulator is well-marked and located on the assembly for easy monitoring.
- Duo-Seal® oral-nasal facepiece is made of natural rubber for long duration comfort. Inner and outer seals are controlled by breathing. Harness is adjustable.
- Microphone assembly is mounted separately, eliminating the necessity of removing both the regulator and microphone assemblies should either require service. Microphone plug-in is compatible for use with most standard aircraft communication systems.

AVOX Systems Inc.
225 Erie Street
Lancaster, NY 14086

Tele: 716 683-5100
Fax: 716 681-1089
www.avoxsys.com



Diluter Demand Regulator on
Complete 893 Assembly



Diluter Demand with Adjustable
Purge Regulator on Complete 893 Assembly

Specifications

Recommended Inlet Pressure: 55-70 psig

Flow Rating: 100 lpm (BTPS)

Maximum Altitude Limitations:

Normal Dilution Setting: 20,000 ft. (6,096 m)

100% Oxygen Setting: 40,000 ft. (12,192 m)

Weight:

a. Regulator Assembly: 2.4 oz. (75 g)

b. Regulator, mask harness, and quick-don head harness:
9.6 oz. (300 g)

c. Total system, including all items listed in (b) plus 4 ft.
oxygen hose and microphone pocket assembly:
14.2 oz. (440 g)

Mask:

a. Type: Duo-Seal®

b. Material: Natural Rubber

Harness:

a. Material: Delrin** Elastic Band

b. Adjustment: 6 Positions

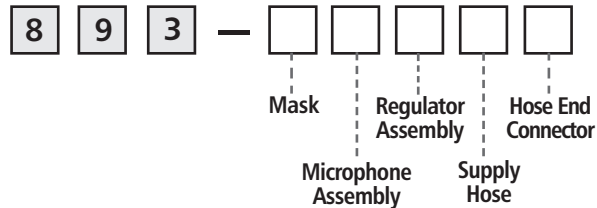
Regulator:

a. Material: Polysulfone, Silicone Rubber, and Corrosion
Resistant Metal Components

** Delrin is a registered trademark of E.I. DuPont de Nemours & Co.,
Inc., Wilmington, DE.

To Order

893 is a basic model number. The chart below illustrates the available configurations. To order, fill in the numbers necessary to indicate the complete Part Number.



Mask

0	None
1	802602-01 Duo-Seal® & Harness (use with microphone)
2	802602-02 Duo-Seal® & Harness (use without microphone)
3	802603-01 Duo-Seal® with Straps (use with microphone)
4	802603-02 Duo-Seal® with Straps (use without microphone)

Regulator Assembly

0	None
1	802601-01 Diluter Demand
2	802601-43 Demand with Adjustable Purge, mates with special smoke mask
4	802601-03 Diluter Demand with Adjustable Purge
5	802601-41 Demand
6	802601-07 Diluter Demand with emergency pressure
7	802601-08 Demand with emergency pressure

Microphone Assembly

0	None
1	802606-01 Dynamic 56" Cable
2	802606-02 Dynamic with Switch; 56" Cable
4	802754-04 Carbon with Switch; 62" Cable
5	802754-05 Carbon; 62" Cable
6	802754-06 Carbon; 54" Cable

Supply Hose

0	None
4	802710-1X, 48" with Pressure Indicator
6	802676-4X, 32" with Flow Indicator
7	802676-1X, 48" with Flow Indicator
8	802676-2X, 54" with Flow Indicator
9	802676-3X, 60" with Flow Indicator
A	802626-6X, 75" long
B	802626-4X, 32" long

Hose End Connector

0	None
1	802624-01 AVOX 8570 Type mates with AVOX P/N 8571, 8572, 8802-12 or 23599 outlets
2	802627-01 Cessna Type mates with AVOX P/N 802040 or Puritan P/N 170099 outlets
3	36857-01 Modified AN Type Beech mates with AVOX P/N 802959-01 or EROS DPB Series, Puritan P/N 170089 outlets
4	36857-01 and 802695-01 Adapter mates with AVOX P/N 802856-01 outlet
5	802857-03 Coupling Assembly
6	10008286 mates with AVOX P/N 10008298 outlet and Perfecting Corp. 1A series sockets

WARNING

Masks have not been FAA TSO qualified for wear over beards or heavy facial hair growth. Facial hair that crosses sealing surfaces can seriously degrade the performance of these masks.

WARNING

IMPROPER USE OR IMPROPER MAINTENANCE OF THIS EQUIPMENT MAY RESULT IN SERIOUS INJURY OR DEATH.

THIS EQUIPMENT IS INTENDED TO BE USED ONLY FOR AVIATION APPLICATIONS AND IS TO BE USED ONLY BY, OR UNDER THE SUPERVISION OF, A PILOT OR CREW MEMBER TRAINED AND QUALIFIED IN ITS USE.

THIS EQUIPMENT IS TO BE SERVICED ONLY IN ACCORDANCE WITH THE APPLICABLE COMPONENT MAINTENANCE MANUAL AVAILABLE FROM AVOX SYSTEMS AND ONLY BY SERVICE

TECHNICIANS TRAINED IN THE INHERENT HAZARDS OF HIGH PRESSURE AVIATION OXYGEN AND KNOWLEDGEABLE IN THIS EQUIPMENT. THE NAMES OF AUTHORIZED SERVICE CENTERS ARE AVAILABLE FROM AVOX SYSTEMS OR YOUR AUTHORIZED AVOX SYSTEMS DISTRIBUTOR.

THIS EQUIPMENT IS TO BE USED ONLY WITH AVIATOR'S BREATHING OXYGEN MEETING THE REQUIREMENTS OF MIL-PRF-27210.